CRYDOM

Control over power

Series CX

5Amp • 120/240, 380, 480 Vac • AC Output SIP

- **SCR Output**
- **Ultra High Surge Rating**
- **Crydom's Patented Design**

Crydom's family of SPST-NO relays achieves the highest power switching capability in a PC-mounted air-cooled package. Advanced features include exceptional steady state current, plus ultra-high surge ratings. Models are available to switch up to 660 Vrms with AC or DC control, and either zero-cross or random turn-on ("R") switching versions. Pinout is compatible with Series 6 and OAC type I/O modules.

Manufactured in Crydom's ISO 9002 Certified facility for optimum product

MODEL NUMBERS				
	AC CONTROL (120Vac) (24Vac)	**CX240A5** **CXE240A5**		
	DC CONTROL (5Vdc) (24Vdc)	**CX240D5** **CXE240D5**	**CX380D5** **CXE380D5**	**CX480D5** **CXE480D5**
OUTPUT SPECIFICATIONS ①				
Operating Voltage (47-63 Hz) [Vrms]		12-280	48-530	48-660
Load Current Range [Arms]		.06-5	.06-5	.06-5
Transient Overvoltage [Vpk]		600	1200	1200
Max. Surge Current, (16.6ms) [Apk]		250	250	250
Max. On-State Voltage Drop @ Rated Current [Vpk]		1.4	1.4	1.4
Maximum I^2t for Fusing, (8.3 msec.) [A^2sec]		260	260	260
Max. Off-State Leakage Current @ Rated Voltage [mArms]		0.1	0.1	0.1
Min. Off-State dv/dt @ Max. Rated Voltage [V/µsec] ②		500	500	500
Max. Turn-On Time ③		1/2 Cycle (DC Control), 10.0 msec (AC Control)		
Max. Turn-Off Time		1/2 Cycle (DC Control), 40.0 msec (AC Control)		
Power Factor (Min.) with Max. Load		0.5	0.5	0.5

INPUT SPECIFICATIONS ①	**DC CONTROL**			**AC CONTROL**	
Nominal Voltage	5Vdc	5Vdc	24Vdc	120Vac	24Vac
MODEL NUMBERS	**CX240D5**	**CX380D5** **CX480D5**	**CXE240D5** **CXE380D5** **CXE480D5**	**CX240A5**	**CXE240A5**
Control Voltage Range	3-15 Vdc	4-15 Vdc	15-32 Vdc	90-140 Vrms	18-36 Vrms
Max. Turn-On Voltage	3.0 Vdc	4.0 Vdc	15.0 Vdc	90.0 Vrms	18.0 Vrms
Min. Turn-Off Voltage	1.0 Vdc	1.0 Vdc	1.0 Vdc	10.0 Vrms	2.0 Vrms
Nominal Input Impedance	300 Ohm	240 Ohm	1500 Ohm	14.1k Ohm	4.2k Ohm
Typical Input Current @ Nominal Voltage	15 mAdc	15 mAdc	15 mAdc	10 mArms	5 mArms

GENERAL NOTES

① All parameters at 25ºC unless otherwise specified.

② Off-State dv/dt test method per EIA/NARM standard RS-443, paragraph 13.11.1

③ Turn-On Time for Random Turn-On versions 0.1msec (DC Control Models).

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For recommended applications and more information contact:
USA: (800) 8 CRYDOM • (800) 827-9366 • (619) 715-7200 • fax (619) 715-7280
Crydom Corp, 9525 Chesapeake Drive, San Diego, CA 92123 • e-mail: sales@crydom.com
WEB SITE: http://www.crydom.com **FASTFAX Product Information:** (888) 267-9191
UK: (44)1202 812300 • fax (44)1202 812340 Crydom International Ltd., 85, Condor Close, Woolsbridge Industrial Estate, Three-Legged Cross. Wimborne, Dorset, England BH21 6SU
GERMANY: (49) (0)6874 182580 • fax (49)(0)6874 182585 Crydom GmbH, Gewerbegebiet Im Schachen, D-66687 Nunkirchen, Germany • e-mail: vertrieb@crydom.com

ISO 9002 CERTIFIED

Series CX

5Amp • 120/240, 380, 480 Vac • AC Output SIP

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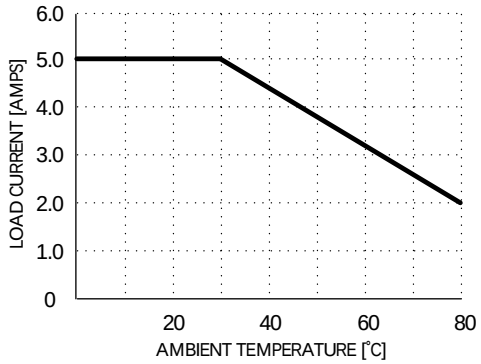
GENERAL SPECIFICATIONS

Dielectric Strength 50/60Hz Input/Output/Base	4000 Vrms
Insulation Resistance (Min.) @ 500 Vdc	10^9 Ohm
Max. Capacitance Input/Output	10 pF
Ambient Operating Temperature Range	-30 to 80ºC
Ambient Storage Temperature Range	-30 to 125ºC

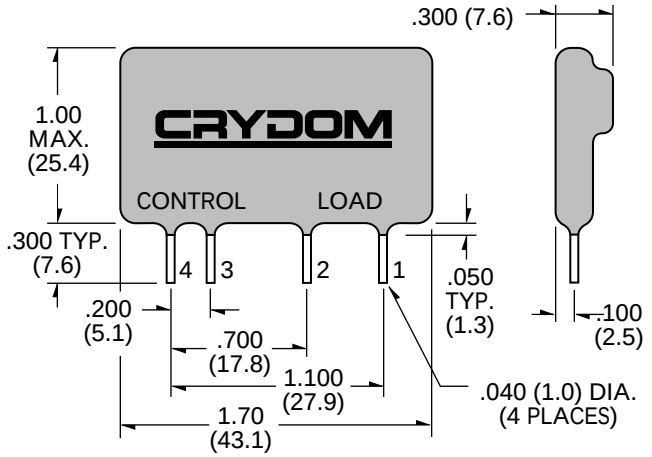
MECHANICAL SPECIFICATIONS

Weight: (typical)	0.4 oz. (11g)
Encapsulation:	Thermally Conductive Epoxy

CURRENT DERATING CURVE



Max. Load Current vs. Temp.



AC CONTROL
PIN 1: AC LOAD
PIN 2: AC LOAD
PIN 3: AC CONTROL
PIN 4: AC CONTROL

DC CONTROL
PIN 1: AC LOAD
PIN 2: AC LOAD
PIN 3: +DC CONTROL
PIN 4: -DC CONTROL

All dimensions are in inches (millimeters)

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AVAILABLE OPTIONS

R Random Turn-On Switching
Example: **CX240D5R, CX240A5R**

APPROVALS

UL E116949
CSA LR81689
VDE 70938
UG (240V, 380V, DC Control Only)

CE

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